

Student Scientist Project 1

What Makes a Happy Plant?

Sunlight

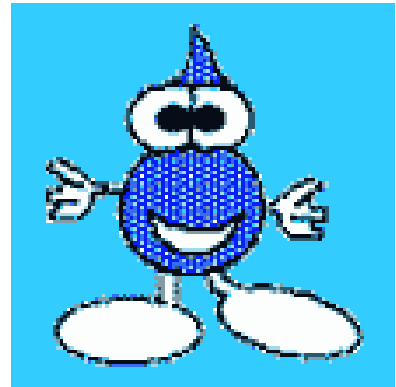
Plants need a few things in order to live and grow the list is short but very important:



Air

CO₂

Water



Super Scientist:

You will investigate what plants really need...

How to be a scientist:

In this experiment – you scientists will look at what plants need to survive – Air, Water, and Light.

- Set up the plants with your teacher
- Listen carefully and follow directions.
- All plants should be near a window to get sunlight
- Check all plants after few days, for growth - measure with a ruler.



Setting up the Experiment:

Each plant will be different –



1. Plant 1 has water, light, and air
2. Plant 2 has water, light, and no air
3. Plant 3 has water, no light, and no air
4. Plant 4 has water, no light, and air
5. Plant 5 has no water, light and air
6. Plant 6 has no water, no light and air
7. Plant 7 has no water, light, and no air
8. Plant 8 has no water, no light and no air



Running the Experiment:

1. So what do you think? Which plant will grow best? Put a check mark by the number of plant you think will grow the most:

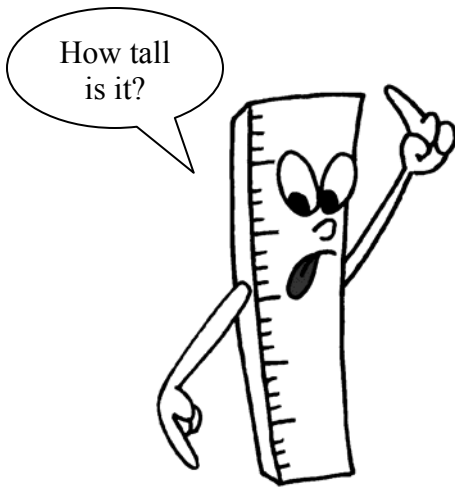
- | | |
|----------|-------|
| 1. Plant | _____ |
| 2. Plant | _____ |
| 3. Plant | _____ |
| 4. Plant | _____ |
| 5. Plant | _____ |
| 6. Plant | _____ |
| 7. Plant | _____ |
| 8. Plant | _____ |

Why? _____

HYPOTHESIS – I think plant number _____ will grow the best because

Running the Experiment:

2. So what do you think? Measuring up – measure each plant and record its height on the line next to the number:



1. Plant _____ cm tall
2. Plant _____ cm tall
3. Plant _____ cm tall
4. Plant _____ cm tall
5. Plant _____ cm tall
6. Plant _____ cm tall
7. Plant _____ cm tall
8. Plant _____ cm tall

Measure from the base of the plant in the pot to the top – do not stretch the plant.

Setting up the Experiment:

Each plant will be different. Set up the plants in this order with your teacher –

1. Plant 1 has water, light, and air
2. Plant 2 has water, light, and no air
3. Plant 3 has water, no light, and no air
4. Plant 4 has water, no light, and air
5. Plant 5 has no water, light and air
6. Plant 6 has no water, no light and air
7. Plant 7 has no water, light, and no air
8. Plant 8 has no water, no light and no air

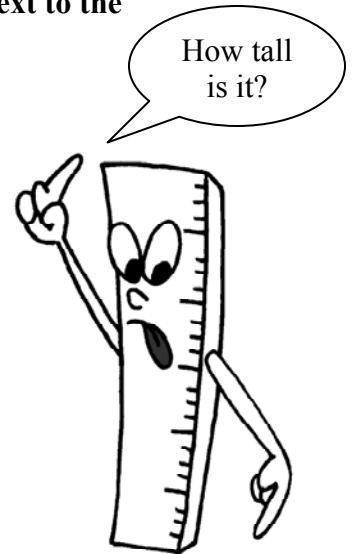


Listen Carefully and Follow Directions

Concluding the Experiment:

3. So what do you think? Measuring up – measure each plant, after a week and record its height on the line next to the number:

1. Plant _____ cm tall
2. Plant _____ cm tall
3. Plant _____ cm tall
4. Plant _____ cm tall
5. Plant _____ cm tall
6. Plant _____ cm tall
7. Plant _____ cm tall
8. Plant _____ cm tall



Measure from the base of the plant in the pot to the top – do not stretch the plant.

Running the Experiment:

4. So what happened? Which plant grew the best? Put a check mark by the number of plant that grew the most:



1. Plant _____
2. Plant _____
3. Plant _____
4. Plant _____
5. Plant _____
6. Plant _____
7. Plant _____
8. Plant _____

CONCLUSION –Plant number _____ grew the best, because

Plants need _____, _____ and _____ to grow.